

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
4 September 2003 (04.09.2003)

PCT

(10) International Publication Number  
**WO 03/072575 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 413/14**,  
A61K 31/422, C07D 417/14, A61K 31/454

(21) International Application Number: PCT/GB03/00785

(22) International Filing Date: 25 February 2003 (25.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/360,957 28 February 2002 (28.02.2002) US

(71) Applicant (for all designated States except MG, US): **ASTRAZENECA AB** [SE/SE]; Sodertalje, S-151 85 (SE).

(71) Applicant (for MG only): **ASTRAZENECA UK LIMITED** [GB/GB]; 15 Stanhope Gate, London, Greater London W1K 1LN (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GRAVESTOCK, Michael, Barry** [GB/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **HALES, Neil, James** [GB/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **RECK, Folkert** [DE/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **ZHOU, Fei** [CA/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **FLEMING, Paul, Robert**

[US/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **CARCANAGUE, Daniel, Robert** [US/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US). **GIRARDOT, Marc, Michel** [US/US]; AstraZeneca R & D Boston, 35 Gatehouse Drive, Waltham, MA 02451 (US).

(74) Agent: **ASTRAZENECA**; Global Intellectual Property, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4TG (GB).

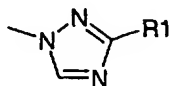
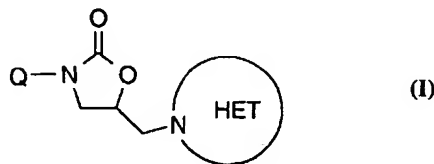
(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

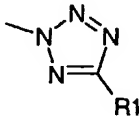
Published:  
— with international search report

[Continued on next page]

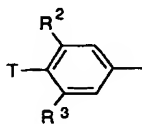
(54) Title: 3-CYCLYL-5-(NITROGEN-CONTAINING 5-MEMBERED RING) METHYL-OXAZOLIDINONE DERIVATIVES AND THEIR USE AS ANTIBACTERIAL AGENTS



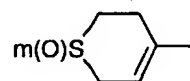
(Ic)



(If)



Q1



(TC12b)

(57) Abstract: Compounds of the formula (I), or a pharmaceutically-acceptable salt, or an in-vivo-hydrolysable ester thereof, (I) wherein -N-HET is, for example, (Ic) or (If) wherein R1 is (1-4C)alkyl; Q is selected from, for example, Q1 (Q1) wherein R<sup>2</sup> and R<sup>3</sup> are independently hydrogen or fluoro; T is selected from a range of groups, for example, (TC12b) wherein m is 0, 1 or 2; are useful as antibacterial agents; and processes for their manufacture and pharmaceutical compositions containing them are described.